

Koppers Company, Inc., Science and Technology  
436 Seventh Avenue, Pittsburgh, PA 15219  
Telephone 412-227-2000

*John*

**KOPPERS**

August 19, 1986

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REGION VI  
1986 AUG 22 PM 3:42  
SUPERFUND BRANCH

Lorenzo Alonzo  
Assistant Manager  
Industrial Waste Section  
Dept. of Public Works  
City of Houston  
P.O. Box 1562  
Houston, Texas 77251

Re: Interim Industrial Waste Permit No. 26781  
Koppers South Cavalcade Site

Dear Mr. Alonzo:

Enclosed please find the discharge summary reports for the approved release of wash water from the South Cavalcade site to the City of Houston sanitary sewer system. The enclosed reports from McBride-Ratcliff and Associates, Inc. cover discharge of 8100 gallons of water on July 3, 1986 and 7600 gallons on July 20, 1986.

Should you have any questions, please do not hesitate to contact me at (412)-227-2689.

Sincerely yours,

*James R. Campbell*

James R. Campbell, Ph.D.  
Project Manager,  
Previously Operated Properties

Enclosure

JRC:m

cc: J. Cochran (EPA) ✓

bc: S. Craig  
T. Hays  
W. Tobin  
File

002966

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McBride-Ratcliff  
and Associates, Inc.

Geotechnical Consultants  
7220 Langtry  
Houston, Texas 77040  
713-460-3766

July 10, 1986  
MRA Project No. 85-317

Koppers Company, Inc.  
1940 Koppers Building  
436 Seventh Avenue  
Pittsburgh, Pennsylvania 15219

ATTENTION: Jim Campbell  
Previously Operated Properties

SUBJECT: Wastewater Discharge No. 1  
South Cavalcade Site  
Houston, Texas

RE: City of Houston Interim Industrial Waste  
Permit No. 026781

We are submitting a summary of our wastewater discharge activities for Tank 1 on July 3, 1986, as requested by Shannon Craig on July 1, 1986.

pH Adjustments

Field pH measurements taken on June 19, 1986 indicate that the Tank 1 wastewater pH ranges from about 11.1 to 11.3. Adjustments of pH are required by the City of Houston in accordance with the Industrial Waste Ordinance to within a range of 6 to 10 prior to any wastewater discharge.

Adjustments to pH were made at Tank 1 by adding the following acids:

Acid Solutions

Type	Amount
Hydrochloric Acid	2 gallons
Acetic Acid	0.75 gallons

The acidic solutions were added directly into Tank 1 and mixed with a submersible pump. Field measurements of pH were made using an Orion Research Model SA320 pH meter to determine the necessary amount of acidic solution.

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Mr. Jim Campbell  
July 10, 1986  
Page Two

Wastewater Disposal

Prior to discharge, the City of Houston was verbally notified on July 2, 1986. The wastewater from Tank 1 was transported in a 1500 gallon water truck by Coltex Drilling to a sanitary sewer manhole at the west side of Transcon Truck Lines located at 2000 Cavalcade Street. Discharge permission was granted by the property owner (Baptist Foundation of Texas) on June 19, 1986.

A total of 8100 gallons of wastewater were discharged on July 3, 1986. Measurements of pH were made for each load quantity and are summarized as follows:

Summary of Wastewater Disposal  
Discharge No. 1

<u>Load</u>	<u>Quantity (gallons)</u>	<u>pH @ 25°C</u>
1	1500	9.8
2	1500	9.7
3	1500	9.7
4	1500	9.7
5	1300	9.7
6	800	9.7

Summary

Results of the field pH measurements indicate that the wastewater Discharge No. 1 was in accordance with the required pH range set forth by the City of Houston Industrial Waste Ordinance. Additional documentation of future discharge activities will be provided as requested.

Please call if you have any questions or require additional information.

Sincerely,

McBRIDE-RATCLIFF AND ASSOCIATES, INC.

*William R. Tobin*

William R. Tobin, P.E.  
Project Manager

WRT:kec

Copy: Shannon Craig - Pittsburgh

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McBride-Ratcliff  
and Associates, Inc.

Geotechnical Consultants  
7220 Langtry  
Houston, Texas 77040  
713-460-3766

July 23, 1986  
MRA Project No. 85-317

Koppers Company, Inc.  
1940 Koppers Building  
436 Seventh Avenue  
Pittsburgh, Pennsylvania 15219

ATTENTION: Jim Campbell  
Previously Operated Properties

SUBJECT: Wastewater Discharge No. 2  
South Cavalcade Site  
Houston, Texas

RE: City of Houston Interim Industrial Waste  
Permit No. 026781

We are submitting a summary of our wastewater discharge activities for Tank 2. Verbal approval of the discharge request dated July 7, 1986 was provided by Mr. Lorenzo Alonzo from the City of Houston Public Works Dept. on July 20, 1986. Verbal authorization of the discharge was provided by Mr. Jim Campbell on July 20, 1986.

pH Adjustments

Field pH measurements taken on July 11, 1986 indicate that the initial pH of the Tank 2 wastewater was 10.9. Adjustments of pH are required by the City of Houston in accordance with the Industrial Waste Ordinance to within a range of 6 to 10 prior to any wastewater discharge.

Adjustments to pH were made at Tank 2 by adding the following solutions:

Solutions

Type	Amount
Hydrochloric Acid (31%)	4 gallons
Sodium Hydroxide (50%)	0.3 gallons

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Mr. Jim Campbell  
July 23, 1986  
Page two

The solutions were added directly to Tank 2 and mixed with a submersible pump. Field measurements of pH were made using an Orion Research Model SA320 pH meter to determine the necessary amount of solution. The final pH was measured to be 9.4 on July 11, 1986.

Wastewater Disposal

Prior to discharge, the City of Houston was verbally notified on July 20, 1986. The wastewater from Tank 2 was transported in a 1500 gallon water truck by Coltex Drilling to a sanitary sewer manhole at the west side of Transcon Truck Lines located at 2000 Cavalcade Street. Discharge permission was granted by the property owner (Baptist Foundation of Texas) on June 19, 1986.

A total of 7600 gallons of wastewater were discharged on July 22, 1986. Measurements of pH were made for each load quantity and are summarized as follows:

Summary of Wastewater Disposal  
Discharge No. 2

<u>Load</u>	<u>Quantity (gallons)</u>	<u>pH @ 25°C</u>
1	1300	9.5
2	1200	9.5
3	1300	9.5
4	1300	9.4
5	1300	9.4
6	1200	9.3

Summary

Results of the field pH measurements indicate that the wastewater Discharge No. 2 was in accordance with the required pH range set forth by the City of Houston Industrial Waste Ordinance. Additional documentation of future discharge activities will be provided as requested.

Please call if you have any questions or require additional information.

Sincerely,  
McBRIDE-RATCLIFF AND ASSOCIATES, INC.

*William R. Tobin*

William R. Tobin, P.E.  
Project Manager

WRT:pgc  
Copy: Shannon Craig - Pittsburgh

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